A. I. A. FILE No. 29-d-2

Tanks

OF NON-RUST

Everdur Metal

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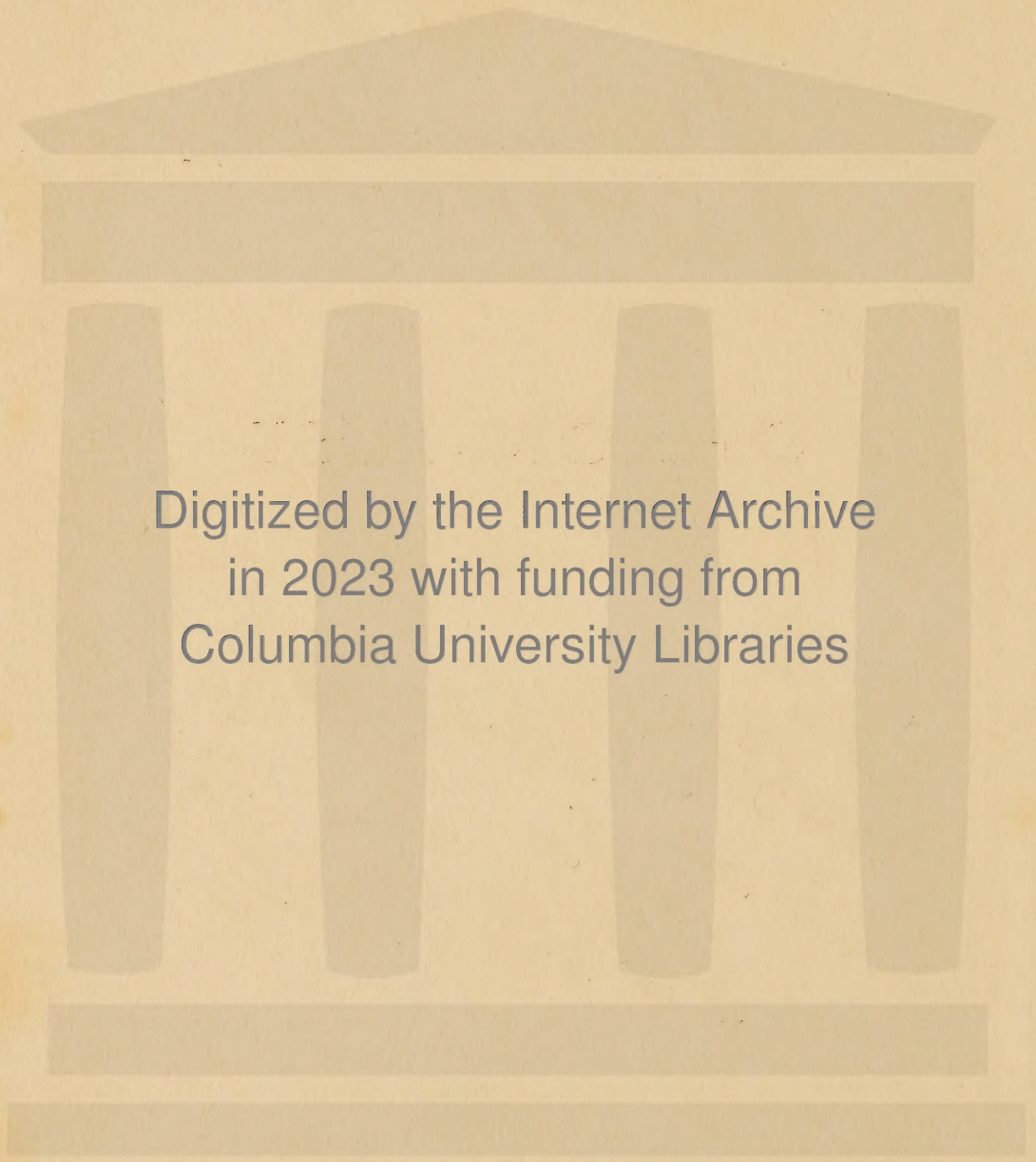
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EVERDUR METAL

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EVERDUR Metal, The American Brass Company's high strength, corrosion resistant alloy, is composed of copper, silicon, and other controlled elements. It was developed for structural and engineering uses which require a metal with the tensile strength and fabricating possibilities of steel, combined with with immunity to rust, and corrosion resistance equal to copper. In addition to its other desirable characteristics, Everdur is non-magnetic, highly resistant to fatigue, readily workable hot or cold and can be satisfactorily fusion welded with rod of similar composition, employing any of the commonly used welding methods; oxy-acetylene torch, carbon arc or metallic arc.

Everdur Metal for Tanks

Steel and Copper long have been the standard materials for construction of hot water storage tanks. Each possesses distinct advantages. Steel offers high strength and economical fabrication, but is subject to rust and corrosion which taint water, and in time, weaken tank metal to a point below the limit of safety. Copper has provided the corrosion-resistance so often essential to long, economical service, but for vessels of large capacity heavy and more expensive construction has often been dictated by physical requirements.

Everdur, costing less than most special corrosion resisting metals, is relatively inexpensive. Fabricating costs for welded Everdur tanks are closely comparable with those for welded steel and considerably less than those for tanks constructed by riveting and brazing.

Everdur tanks in service today range in size from one gallon fuel containers for gasoline stoves to 20,000 gallon pressure vessels operating as units in chemical process work. Everdur tanks have been constructed by practically all the standard methods, including resistance seam welding, carbon arc, metallic arc and oxy-acetylene welding.

Today, Everdur storage water heaters and service water heaters, built to specification, are in use in laundries, textile plants, hotels, hospitals, schools, apartment houses, office buildings and private residences. Many Everdur pressure vessels are in service as operating and storage units in the process industries. And Everdur has been adopted as the standard for non-rust tanks by leading manufacturers of storage tanks and domestic automatic storage heaters.

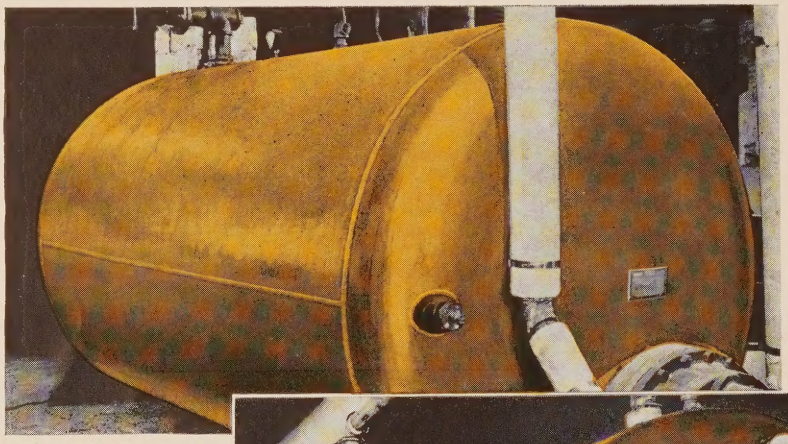
UNDERFIRED WATER HEATERS

Because of immunity to rust, Everdur tanks provide high efficiency and most economical operation for underfired domestic storage water heaters. There can be no accumulation of rust from tank corrosion at the bottom of the vessel to insulate the water from the heating element.

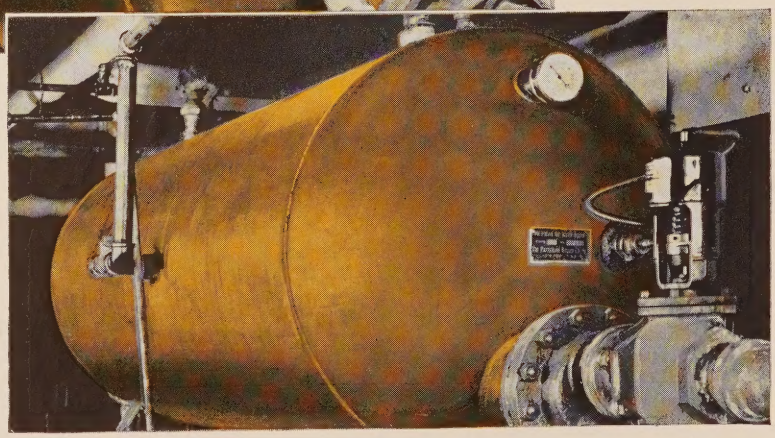
Large-Size Everdur Storage Heaters

The majority of concerns making heating equipment for large public and private buildings and process plants are fully familiar with the fabrication of Everdur tanks.

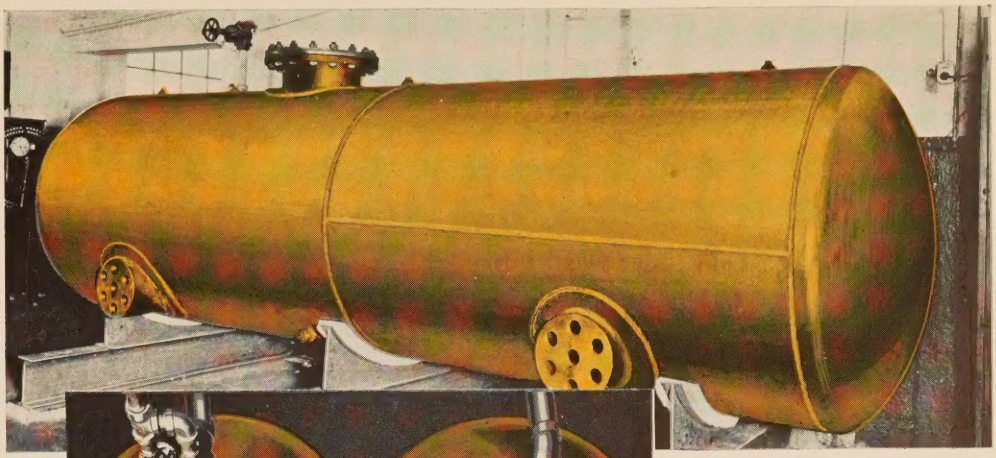
Heaters, made of Everdur metal, have met with ever-growing acceptance in recent years for these reasons: 1. A non-rusting tank eliminates a source of rust-tainted hot water, and affords a means of reducing maintenance costs to a minimum; 2. the corrosiveness of hot water and the constant pressure in storage units renders rustable tanks decidedly uneconomical in countless instances, as the factor of safety decreases in proportion to the extent corrosion weakens the shell; 3. clean hot water is of the utmost importance particularly in laundries, textile mills and hospitals; 4. Everdur has made it possible to build at reasonable cost dependable heater shells which meet every specification and the most rigid tests.

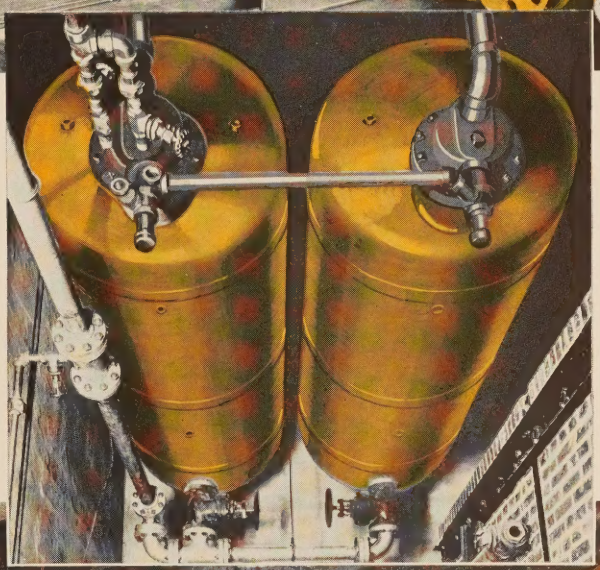


LEFT—WHITLOCK EVERDUR *Type K Heater built for Sutton Superior Laundry, New York City by* THE WHITLOCK COIL PIPE CO., *Hartford, Conn. It replaced a rustable heater which had failed after* LESS THAN FIVE YEARS OF SERVICE!



RIGHT—*This all-welded* PATTERSON EVERDUR *Water Heater was designed and manufactured by* PATTERSON KELLEY CO., INC., *of New York City for the Mellon National Bank in Pittsburgh. It maintains a working pressure of 100 pounds.*

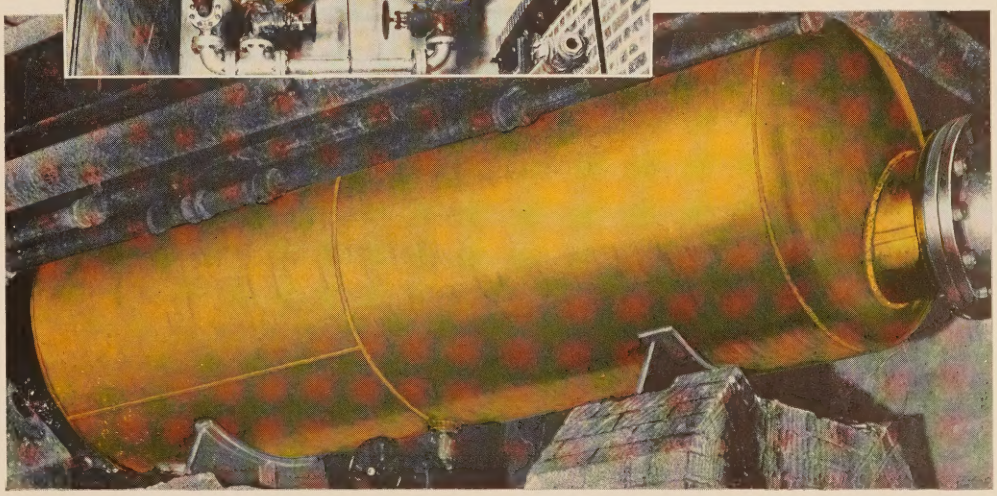


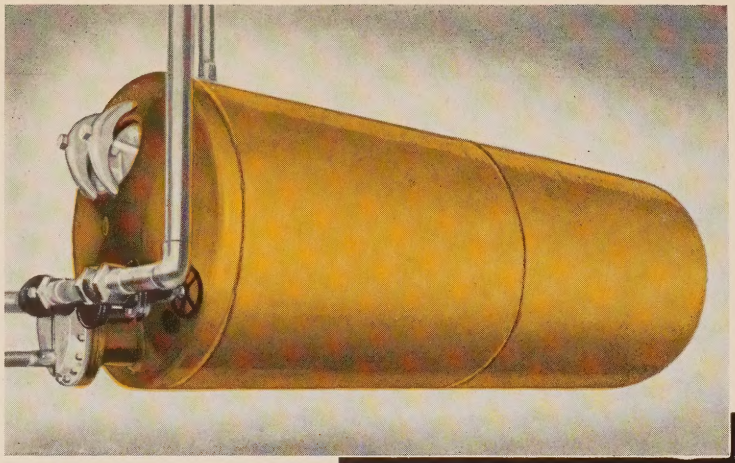


ABOVE—*This 1800-gallon all-welded Everdur storage water heater was made by* DOWNINGTOWN IRON WORKS, *Downingtown, Pa., for New York & Queens Electric Light & Power Co.*

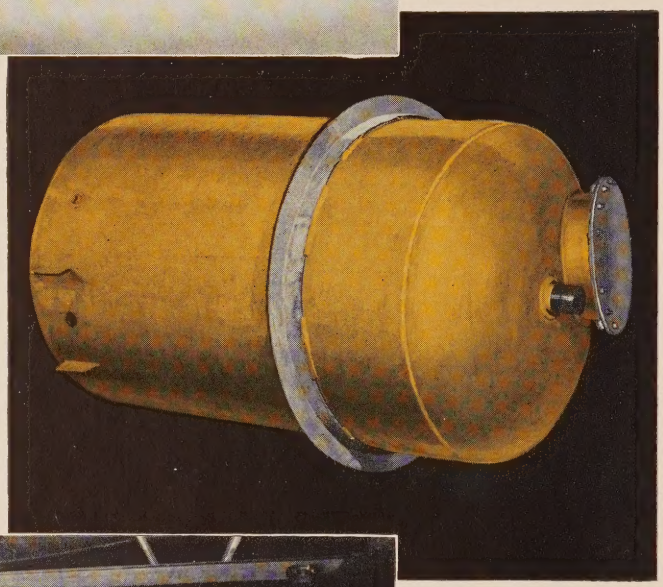
LEFT—*Two Everdur tanks in the Canada Life Building, Toronto. Made by* COULTER COPPER AND BRASS, LTD., *each has a storage capacity of 424 gallons.*

BELOW—*Replacing a rusted tank less than four years old, this 500-gallon Everdur storage tank was made by* WM. B. SCAIFE & SONS CO., *Oakmont, Pa., for the Joseph Horne Company store in Pittsburgh. Tested to 300 lbs. pressure.*

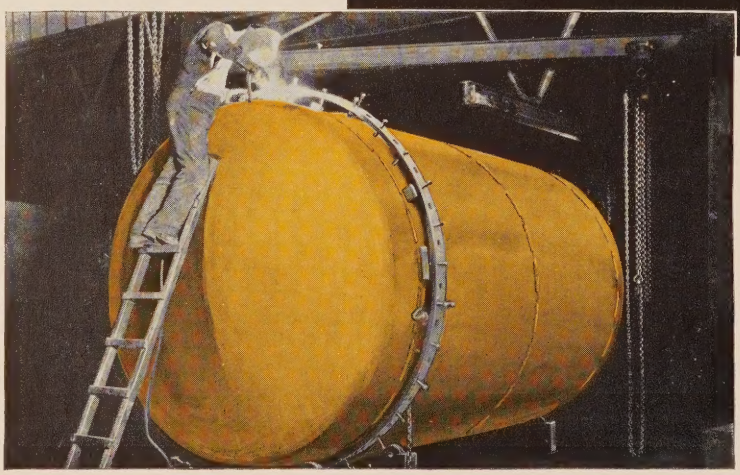




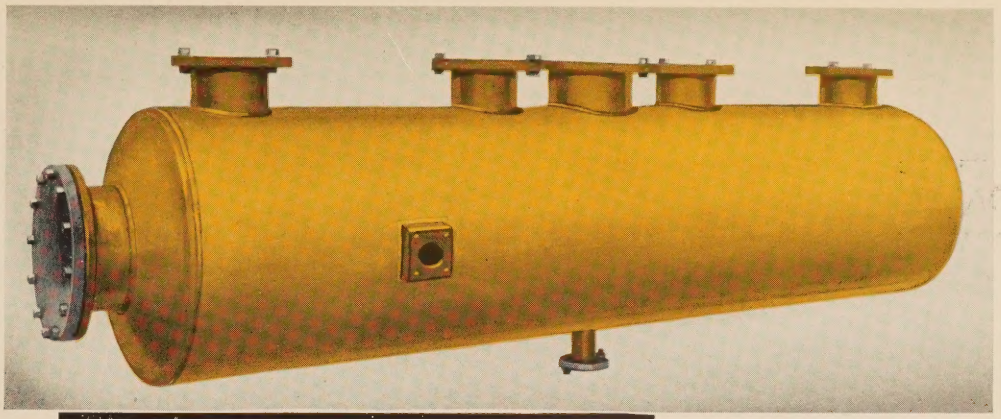
LEFT—*800-gallon welded Everdur storage water heater made by* CALIFORNIA STEEL PRODUCTS CO., *San Francisco, Calif., for the Jewish Community Center Building in San Francisco.*

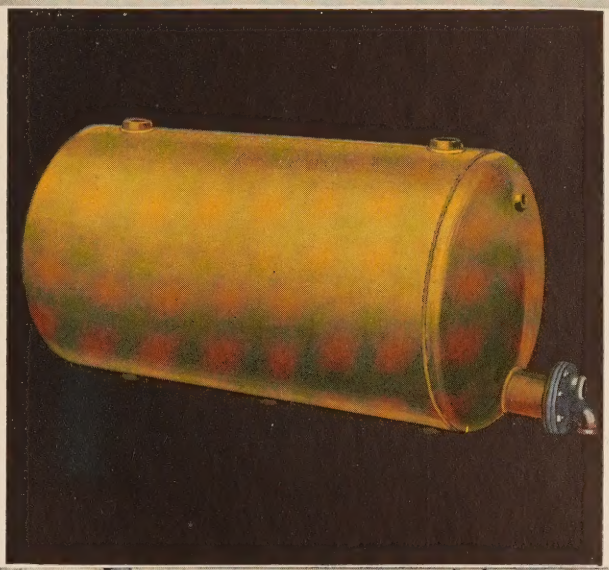


RIGHT—*Carbon arc welded Everdur tank for dye process work made by* CHICAGO BOILER CORPORATION, *Chicago, Ill.*



LEFT—*Welding-in the head of a* PATTERSON EVERDUR *Water Heater designed and built for Cleanart Laundry, Inc., Yonkers, New York, by the* PATTERSON KELLEY CO., INC., *New York City. It measures 8' x 16' and has an hourly heating capacity of 15,000 gallons.*

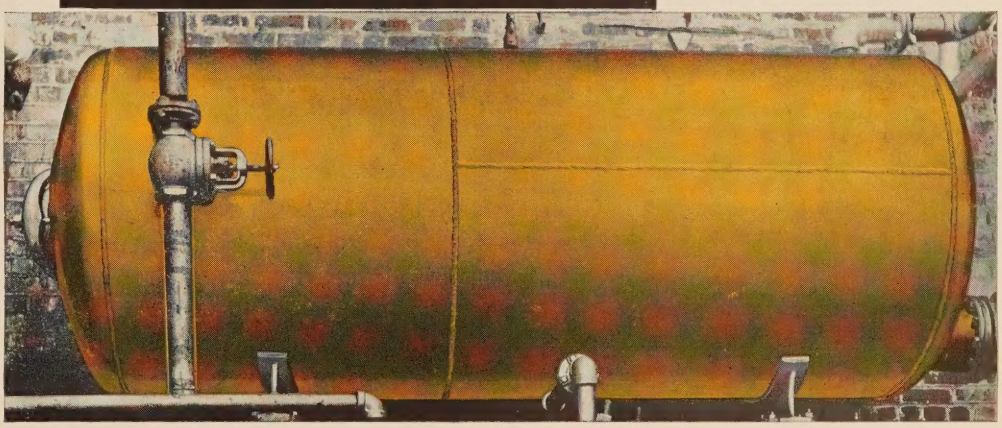




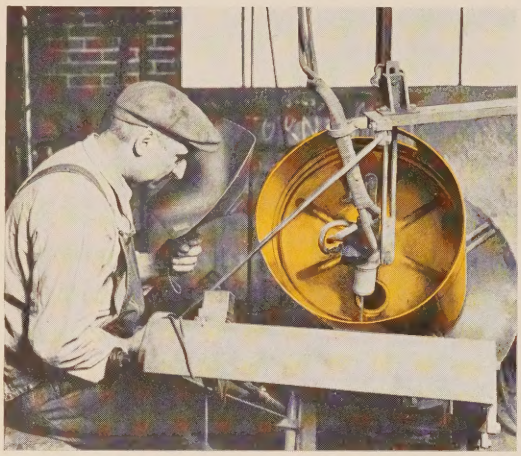
ABOVE—*Everdur vacuum tank, 33" x 156", built by* THE SIMS CO., *Erie, Pa., for Robison Process Co. of the same city.*

LEFT—ROSS *Type "TE" welded Everdur storage tank heater made by* ROSS HEATER & MFG. CO., *Buffalo, N. Y.*

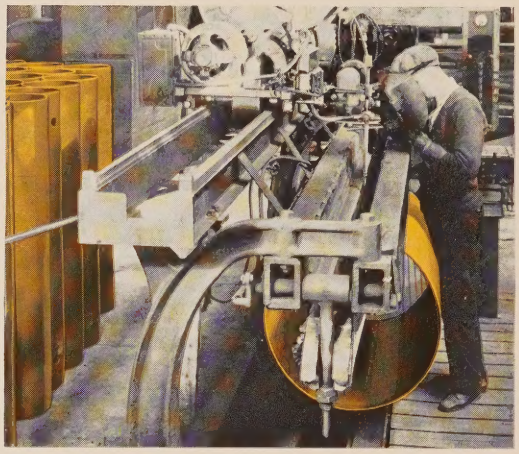
BELOW—WHITLOCK EVERDUR *Type K heater made for Merrill Hosiery Co., Hornell, N. Y., by* THE WHITLOCK COIL PIPE CO., *Hartford, Conn.*



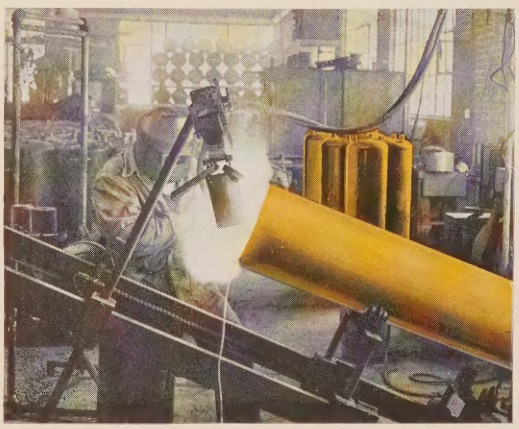
Everdur Tanks are Economically and Dependably Fabricated by Welding



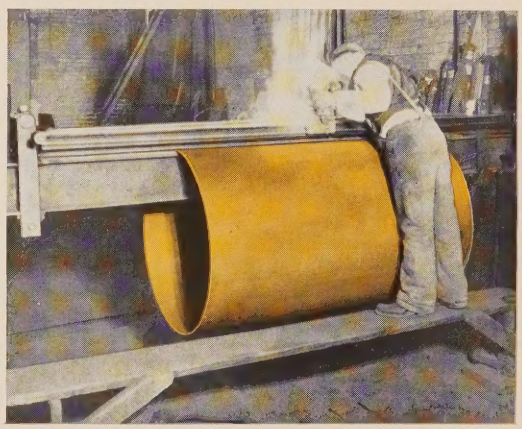
Automatic carbon arc welding of an Everdur Tank in the plant of Bastian-Morley Co., Inc., LaPorte, Ind.



Automatic metallic arc welding of longitudinal seam on all-welded Everdur Tank.
Photo courtesy W. A. Case & Sons, Norristown, Pa.

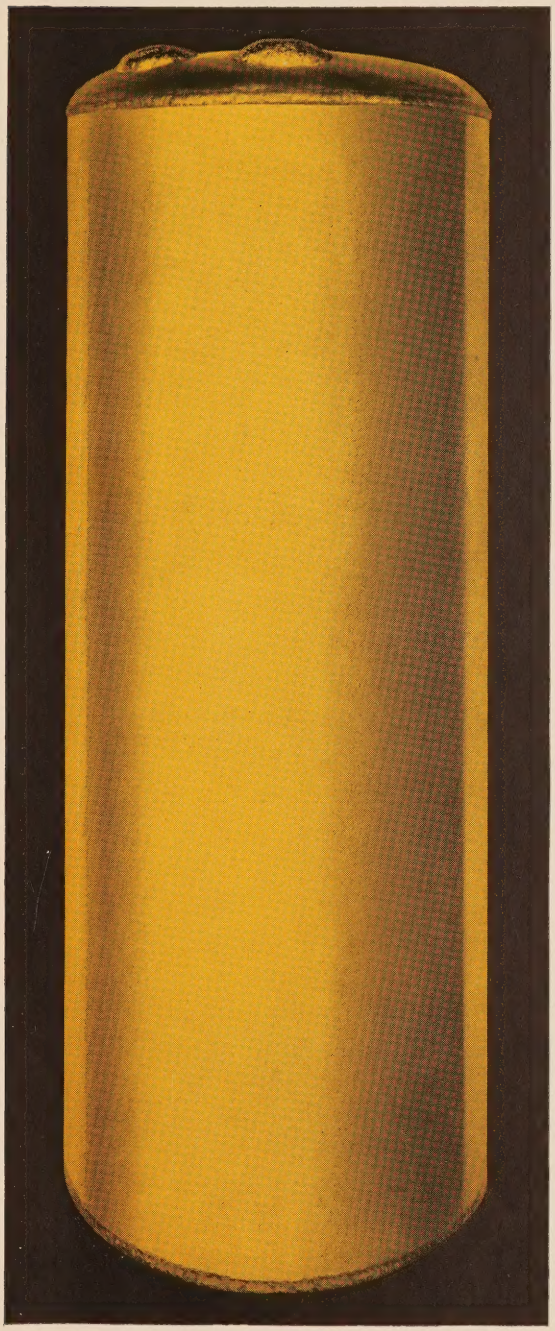


Caarbon arc welding-in the bottom of a seamless Everdur Shell.
Photo courtesy of Bastian-Morley Co., Inc., LaPorte, Ind.



Carbon arc welding of a longitudinal seam on an Everdur Tank.
Photo courtesy of Chicago Boiler Company, Chicago, Ill.

Domestic Water Heaters and Storage Tanks



Most Leading Manufacturers *Standardize* on Everdur Metal for Rust-Proof Tanks.

In the past decade the greatly increased use of brass and copper pipe for water lines is ample indication of the general recognition that rust is undesirable from every standpoint —convenience, upkeep and ultimate economy. In view of this it is only natural that the availability of Everdur has led to a rapidly growing use of non-rust tanks in the home.

In 1930 one of the largest manufacturers of gas-fired automatic storage heaters adopted welded Everdur tanks for a special model. Since that time the majority of leading manufacturers of gas, electric, and oil heaters have *standardized* on Everdur for all rust-proof tanks—significant evidence of the widespread acceptance of Everdur as the ideal non-rusting tank material.

Typical all-welded Everdur storage tank as used by manufacturers of domestic automatic heaters.

These Everdur range boilers are typical of those made by leading manufacturers of such equipment—many of whom have standardized on Everdur Metal for the production of non-rust models.

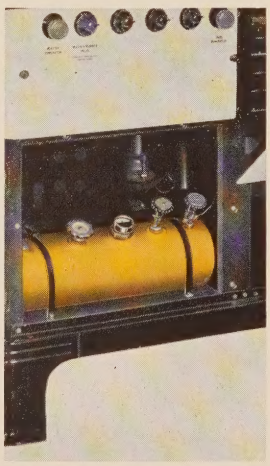
Everdur Storage Tanks (Range Boilers)

When an automatic storage heater is not used, the hot water is generally kept in a storage tank, or "range" boiler. Leading manufacturers of such tanks have adopted Everdur Metal for non-rust units.

Used with the different types of independent heating units, range boilers in the past have been made principally of steel—although copper has always been used in sections of the country where the water supply is highly corrosive. However, welded Everdur tanks have offered many production economies, with the result that the price differential between the rusting and non-rusting kind has been considerably reduced.

Home owners, no longer content with rusty hot water, or frequent repairs and periodic replacements, are installing welded Everdur storage tanks. These are generally available from plumbing contractors in all standard sizes and for standard pressures.

Gasoline stove with Everdur tank. American Gas Machine Co., Inc., Albert Lea, Minn.



Coleman Range with Everdur gasoline tank. Coleman Lamp & Stove Co., Wichita, Kansas.

FUEL TANKS, TOO,
are being made of Everdur

Gasoline-fired ranges, stoves, radiant heaters and other similar equipment are available with fuel tanks of welded Everdur. Being strong, and highly resistant to corrosion, Everdur gasoline tanks provide maximum safety.

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